

Summation of current work

I've had a basic idea on 3-D simulation procedure.

Make drawing in ProE → export as IGS (solid) format → import to Gambit → mesh in 3-D
→ Glass1.dbs → Select FIDAP as Solver, export file including mesh information →

Glass1.FDNEUT

Glass1.FIPREP

All geometry information, such as node, element, group, nodal coordinate, is included in Glass1.FDNEUT file

Compile preprocessing file: Glass1.FIPREP

Each perform session is arranged by the submodules of FIDAP that are used as follows:

- FI-GEN
- FIPREP
- CREATE
- RUN
- Reconnect to files -- IDENT
- FIPOST

Postprocessing

- To print out graph:

1. GRAPHICS → DEVICE → Change DEVICE DRIVE to POSTSCRIPT and gives the FIPLOT file name;

2. Make plots: contour → temperature

Mesh →

Convergence →

3. Copy fdp2ps.f file in the same folder, and then run fdp2ps under MSDOS environment, and then generate a new file which can be opened in GHOSTSCREEN!

- To output data:

e. g.: output temperature:

FIPOST → computation → heat flux

1. All information is saved in file glass1.FIOUT automatically → inconvenience to read, save the result we need separately

2. Save useful information using NETURAL

3. A FIDAP → FIPOST → neutral → contour → Output what you want

I'm running a 3-D the example in FIDAP.